

CHECK YOUR LEARNING**Suggested Answers**

1. The main organs of the respiratory system are the nasal cavity, mouth, trachea, bronchi, lungs, bronchioles, and alveoli.
2. The role of epithelial tissue in the trachea and bronchi is to secrete mucus to filter out foreign material.
3. The circulatory system carries oxygen and carbon dioxide that are exchanged by the respiratory system.
4. Breathing is the intake and output of air. Gas exchange involves the diffusion of oxygen into the blood and carbon dioxide out of the blood.
5. (a) An X-ray can show TB. However, pneumonia and other conditions can look like TB in an X-ray.
(b) To confirm TB, stomach and lung secretions must be examined.
6. Both fish and humans exchange oxygen and carbon dioxide. The fish takes in oxygenated water, whereas the human takes in air. Humans breathe air in and out. Gas exchange occurs as water flows over a fish's gills.

DIFFERENTIATED INSTRUCTION

- Visual/spatial learners may benefit from going over Figure 1 on page 91 one step at a time. Students can expand Figure 1 by making a body diagram and showing where each event takes place. The diagram should show:
(a) air entering lungs, (b) oxygen entering the circulatory system and being carried to the rest of the body, (c) cells taking in oxygen and giving off carbon dioxide, (d) carbon dioxide returning to the lungs.
- Verbal/linguistic learners can benefit from describing what happens in each step of the diagram described above. Bodily/kinesthetic learners might use gestures and body movements to act out the sequence.